

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference H0005045-4015	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2004/017906	International filing date (day/month/year) 04/06/2004	(Earliest) Priority Date (day/month/year) 06/06/2003
Applicant HONEYWELL INTERNATIONAL INC.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

THERMAL INTERCONNECT SYSTEM AND METHOD OF PRODUCTION THEREOF

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. _____



as suggested by the applicant.



as selected by this Authority, because the applicant failed to suggest a figure.



as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01L23/373

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 504 242 B1 (DAYTON KRISTOPHER E ET AL) 7 January 2003 (2003-01-07) cited in the application	1-6, 10, 19-24, 28
Y	the whole document	18, 36
X	US 5 981 085 A (HIDENO AKIRA ET AL) 9 November 1999 (1999-11-09) column 5, line 41 - column 7, line 12; figure 1	1-3, 5-9, 19-21, 23-27
X	US 2003/047814 A1 (KWON HEUNG KYU) 13 March 2003 (2003-03-13) paragraphs '0023! - '0030!; figure 2 -/--	1-6, 10-17, 19-24, 28-35

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

8 December 2004

Date of mailing of the international search report

16/12/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Le Gallo, T

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 274 407 B1 (JAIRAZBHOY VIVEK AMIR ET AL) 14 August 2001 (2001-08-14) the whole document	1-4, 10-14, 19-22, 28-32
X	US 2002/175403 A1 (LEWIS BRIAN ET AL) 28 November 2002 (2002-11-28) the whole document	1, 19
Y	US 2 439 935 A (BIERLY NEVIN R ET AL) 20 April 1948 (1948-04-20) the whole document	18, 36
A	US 5 223 741 A (BECHTEL RICHARD L ET AL) 29 June 1993 (1993-06-29) column 3, line 46 - column 4, line 63; figure 2a	18, 36
A	US 5 635 764 A (FUJIKAWA HISAYOSHI ET AL) 3 June 1997 (1997-06-03) column 12, line 35 - column 14, line 6; figure 5	15-17, 33-35

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/017906

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6504242	B1	07-01-2003	EP	1444730 A2	11-08-2004
			WO	03043081 A2	22-05-2003
US 5981085	A	09-11-1999	GB	2311414 A ,B	24-09-1997
			GB	2327150 A ,B	13-01-1999
			JP	10150124 A	02-06-1998
US 2003047814	A1	13-03-2003	KR	2003021895 A	15-03-2003
US 6274407	B1	14-08-2001	US	6144104 A	07-11-2000
			EP	1039526 A2	27-09-2000
US 2002175403	A1	28-11-2002	CA	2447978 A1	23-01-2003
			EP	1404883 A2	07-04-2004
			TW	544886 B	01-08-2003
			WO	03007312 A2	23-01-2003
			US	2004200879 A1	14-10-2004
US 2439935	A	20-04-1948	GB	591834 A	29-08-1947
US 5223741	A	29-06-1993	AU	6445590 A	08-04-1991
			WO	9103413 A1	21-03-1991
US 5635764	A	03-06-1997	DE	4396525 T0	17-04-1997
			WO	9414190 A1	23-06-1994
			JP	3372548 B2	04-02-2003